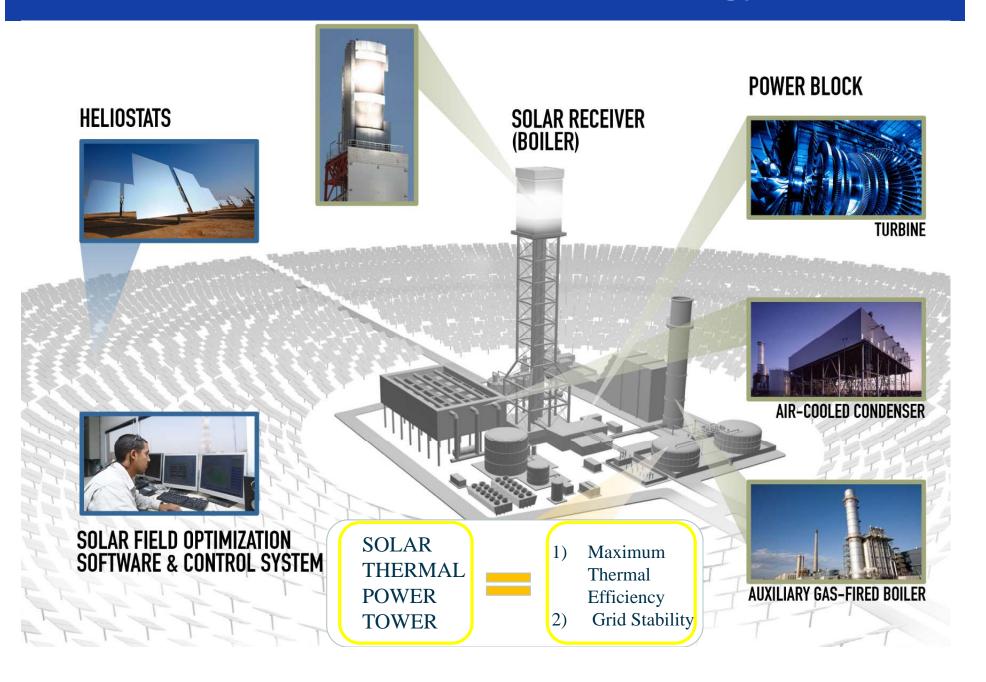


Palen Solar Holdings, LLC (PSH)

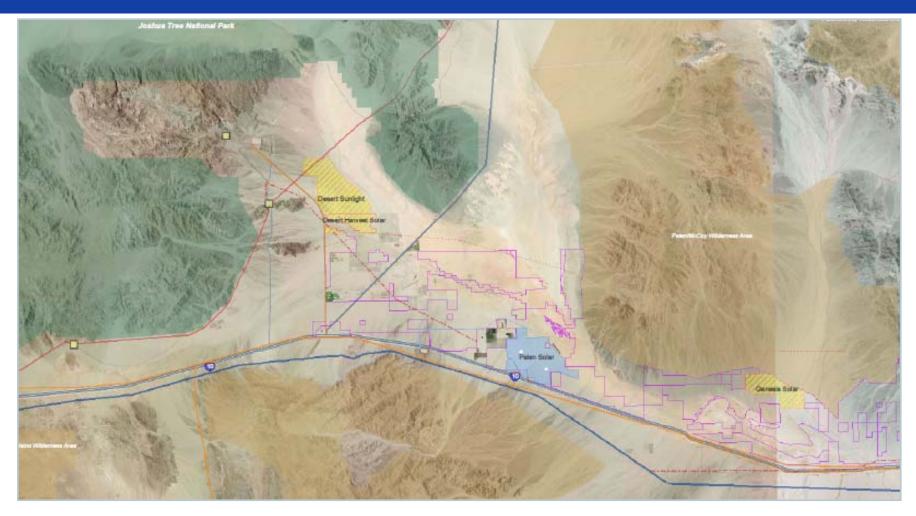


- ❖ Palen Solar Holdings (PSH):
 - ❖ Originally a JV between Caithness Energy and BrightSource Energy.
- Objective of Palen Solar Holdings:
 - ❖ Purchase, amend permit and assign existing PPA's 2016 CoD
- * Recent Developments:
 - ❖ Caithness sold interest in PSH to BrightSource Energy.
 - ❖ BrightSource in late stage discussions to introduce a new strategic partner

Power Tower Solar Thermal Technology



Regional Overview – Existing & Permitted Features



- ➤ Riverside SEZ
- ➤ Desert Sunlight
- > Desert Harvest

Approved Project VS Modified Project



Component	Approved Project (PSPP)	Revised Project (PSEGS)
Output	500 MW	500 MW
Disturbance Area	4,226 acres	3,896 acres
Cut & Fill	4,500,000 cubic yards	200,000 cubic yards
Evaporation Ponds	4 (16 acres)	2 (4 acres)
Water Use (per annum)	300 AFY	200 AFY
Construction Water Use	5,750 AF	1,139 AF

Modified Project Status



Heliostats

To,000

Cutput

Renewable Energy for 200,000 homes

JOBS:

Construction – 2,300 (at peak)
Operations – ~100

Tax Benefit

~\$200 million (over 30 years)

Federal Royalty

\$200 million (over 30 years)

POI: Red Bluff Substation

Gen-Tie: 6.5 miles

Palen SEGS Status:

Land: BLM

I/C Status: LGIA Executed

CEC: Final Decision Issued 2010 (PSPP)

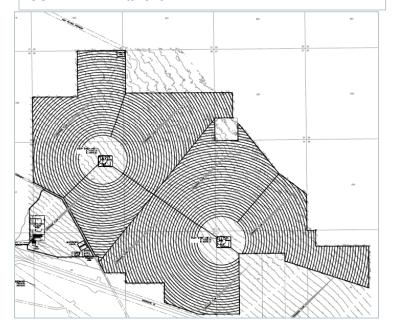
PSH Amendment Submitted 12/12

BLM: Original FEIS published 2011

PSH Revised PoD submitted 2/13

PPAs: PUC Approved & Assigned to project

COD: 6/2016



Technology Advantages of Power Tower

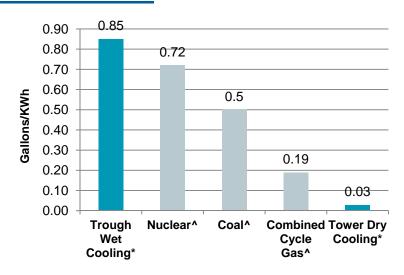
<u>LAND</u> <u>DISTURBANCE</u>





- Retains existing vegetation & land contours
- Eliminates use of concrete foundations
- Existing Vegetation co-exists with heliostats

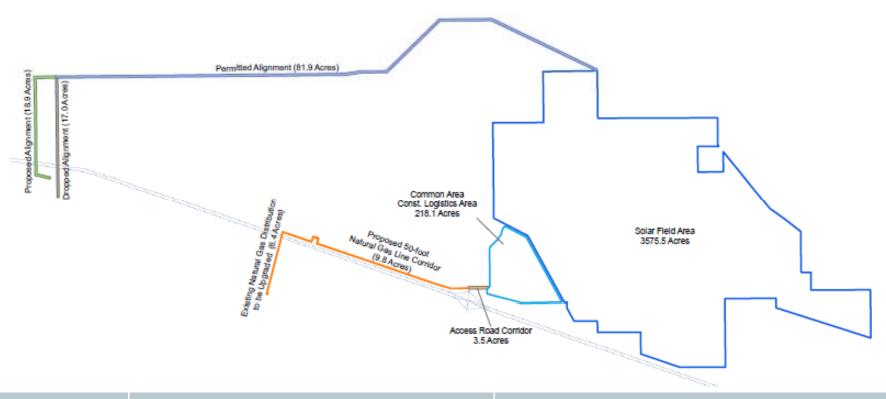
WATER USE



POWER QUALITY

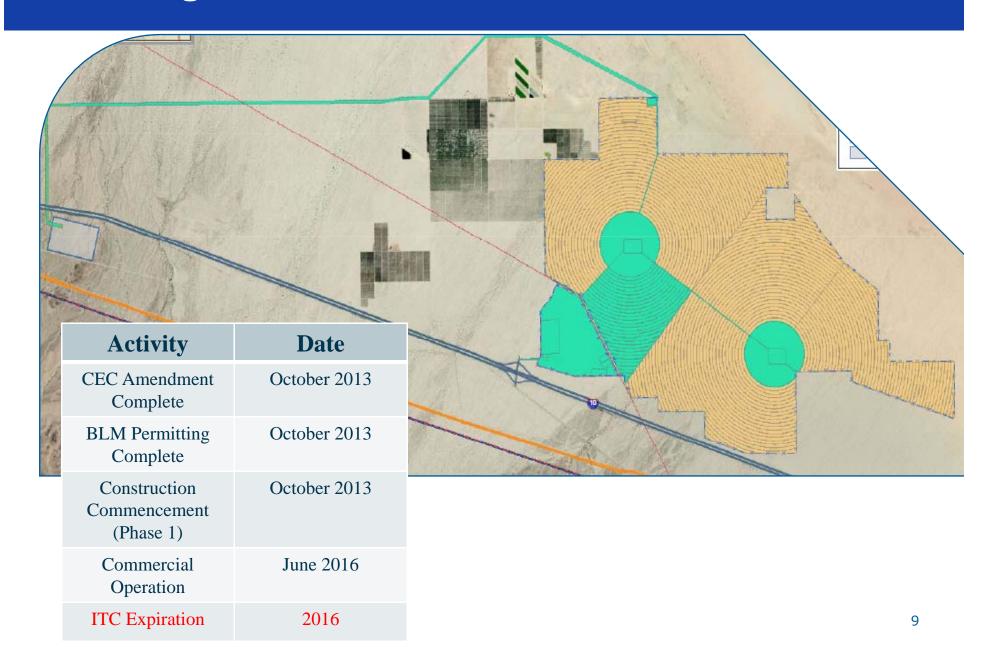
- Enhanced Grid Integration
 - Voltage support
 - Reactive Power
 - Frequency Response
- Reduced Output Variability due to Natural Gas back-up

Proposed Modifications



Component	Replacement	Potential Impact delta
Solar Field	Parabolic Trough <-> HelioStat	 Eliminates grading Eliminates foundation requirements
Heat Conversion	HTF system <-> Power Tower	Eliminates on-site therminolIncreases maximum height of facility
Gen-Tie	Re-route last mile into Red Bluff	• Minimizes cumulative impact of T-line

Phasing & Schedule



Thank You

Contact Info as Appropriate